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(54) Title: MALE STERILITY RESTORATION AS A SELECTABLE MARKER IN PLANT TRANSFORMATION

(57) Abstract: The present invention provides methods of identifying transformed plants using the restoration of male fertility as a selectable marker. Preferably, the fertility restorer genes are used to restore fertility in *Brassica napus*. The present invention also includes vectors comprising male sterility genes flanked by recombinase sites, vectors comprising a fertility restorer gene and a nucleotide sequence of interest flanked by recombinase sites, and methods of using such vectors to produce transgenic plants, using restoration of male fertility as the selection for transformation events.

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/US03/26593

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A01H 1/02; C12N 15/31, 15/55, 15/82

US CL : 800/274, 278, 287, 288, 300, 303, 306; 435/199, 320.1, 462

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 800/274, 278, 287, 288, 300, 303, 306; 435/199, 320.1, 462

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5,929,307 A (HODGES et al.) 27 July 1999 (27.07.1999), Figures 1a-1d and 3;	12-13
---	Column 2, line 65 through Column 3, line 15; Claims 1-13.	-----
Y		1-11
Y	US 5,658,772 A (ODELL et al.) 19 August 1997 (19.08.1997), Column 40, lines 1-40.	1-11
Y	US 5,013,659 A (BEDBROOK et al.) 07 May 1991 (07.05.1991), Column 57, line 65 through Column 60, line 16).	2-3,9-10,14

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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